

Receiving Report

Date: 15-02-19.

Batch No: 131616

Supplier: KLX

Dart P/O: 27404

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO27404**

Purchase Order Date 2/11/2015

PO Print Date 2/11/2015

Page Number 1 of 3

Order From :
KLX INC.
88289 EXPEDITE WAY

VU-KLX01

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

CHICAGO, IL 33172
USA

Contact Name
Vendor Phone 305-925-2600

Ship To Contact
Ship To Phone
Ship Via: FedEx Overnight collect
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS20426AD3-8	RIVET	3/12/2015 Yes 3/12/2015		600.00 Each	\$0.03	\$18.00
Line Total:							\$18.00
2	NAS6604D16 260	Bolt	3/12/2015 Yes 3/12/2015	FN	50.00 Each	\$0.97	\$48.50
Line Total:							\$48.50
3	MS21059L3 303	Nut Plate	3/12/2015 Yes 3/12/2015	FN	300.00 Each	\$0.39	\$117.00

SP15-02-19

Note:

2/11/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

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CANADA

CHICAGO, IL 33172
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Ship Via: FedEx Overnight collect
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB Destination-Collect

Line Total: \$117.00

5	MS27039-4-22	Screw	3/12/2015	FN	50.00	✓	\$0.60	\$30.00
			Yes		Each			
			3/12/2015					

284

Line Total: \$30.00

7	MS27039-4-21	Screw	3/12/2015		50.00	✓	\$0.60	\$30.00
			Yes		Each			
			3/12/2015					

284

Line Total: \$30.00

SP15-02-19

Note:

2/11/2015



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Page Number 3 of 3

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88289 EXPEDITE WAY

VU-KLX01

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CANADA

CHICAGO, IL 33172
USA

Contact Name

Vendor Phone 305-925-2600

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

8	71401-45	PROCUREMENT QUALITY CLAUSES	3/12/2015	1.00		\$0.00	\$0.00
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No

3/12/2015

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

SP15-02-19

Line Total: \$0.00

PO Total: \$243.50

CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 3

Change Date: 2/11/2015



1. Vendor (Name and Address)/Vendeur (Nom et adresse) KLX Inc. P.O. Box 025263 Miami, FL 33102-5263		2. Date of Direct Shipment to Canada/Date d'expédition directe vers le Canada 02/17/2015	
4. Consignee (Name and Address)/Destinataire (Nom et adresse) DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7		3. Other References (Include Purchaser's Order No.) Autres références (inclure le n° de commande de l'acheteur) PO#: Multiple -- See Item 12	
		5. Purchaser's Name and Address (If other than Consignee) Nom et adresse de l'acheteur (S'il diffère du destinataire) DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7	
		6. Country of Transshipment/Pays de transbordement CANADA	
		7. Country of Origin of Goods Pays d'origine des marchandises USA	IF SHIPMENT INCLUDES GOODS OF DIFFERENT ORIGINS ENTER ORIGINS AGAINST ITEMS IN 12 SI L'EXPÉDITION COMPREND DES MARCHANDISES D'ORIGINES DIFFÉRENTES, PRÉCISER LEUR PROVENANCE EN 12.
8. Transportation: Give Mode and Place of Direct Shipment to Canada Transport: Préciser mode et point d'expédition directe vers le Canada FEDX INTL P1 COLL		9. Conditions of Sales and Terms of Payment (i.e. Sale, Consignment Shipment, Leased Goods, etc.) Conditions de vente et modalités de paiement (p. ex. vente, expédition en consignation, location de marchandises, etc.) NET 45	
		10. Currency of Settlement/Devises du paiement U.S. Currency	
11. No. of Pkgs Nbre de colis	12. Specification of Commodities (Kind of Packages, Marks and Numbers, General Description and Characteristics, i.e. Grade, Quality) Designation des articles (Nature des colis, marques et numéros, description générale et caractéristiques, p. ex. classe, qualité)	13. Quantity (State Unit) Quantité (Préciser l'unité)	14. Unit Price Prix unitaire
1	PO#: 27458 AN3C34A AN6-41A MS20615-4M20 MS21059L3K MS21083C8 MS24693-C273 MS24694S148 MS24694S154 MS24694S50	Invoice#: HYFWXZ BOLT BOLT RIVET, SOLID LOCKNUT, PLATE - TWO LOCKNUT SCREW SCREW SCREW SCREW	2.150 /EA 2.650 /EA 0.350 /EA 0.670 /EA 1.550 /EA 0.300 /EA 8.400 /EA 1.050 /EA 0.080 /EA
		20 20 100 700 100 50 45 50 200	43.00 53.00 35.00 469.00 155.00 15.00 378.00 52.50 16.00
		U.S. Currency	
18. If any of fields 1 to 17 are included on an attached commercial invoice, check this box. Si les renseignements des zones 1 à 17 figurent sur la facture commerciale, cocher cette boîte. <input checked="" type="checkbox"/>		16. Total Weight/Poids Total Net Gross/Brut 48 lb 00oz	
19. Exporter's Name and Address (if other than Vendor) Nom et adresse de l'exportateur (S'il diffère du vendeur) KLX Inc. 10000 NW 15 TERRACE MIAMI, FL 33172		17. Invoice Total Total de la facture 2,488.80	
20. Originator (Name and Address)/Expéditeur d'origine (Nom et adresse) Office Manager		21. Departmental Ruling (if applicable)/Décision du Ministère (S'il y a lieu)	
22. If fields 23 to 25 are not applicable, check this box Si les zones 23 à 25 sont sans objet, cocher cette boîte <input checked="" type="checkbox"/>			
23. If included in field 17 indicate amount: Si compris dans le total à la zone 17, préciser: (i) Transportation charges, expenses and insurance from the place of direct shipment to Canada Les frais de transport, dépenses et assurances à partir du point d'expédition directe vers le Canada \$ _____ (ii) Costs for construction, erection and assembly incurred after importation into Canada Les coûts de construction, d'érection et d'assemblage après importation au Canada \$ _____ (iii) Export packing Le coût de l'emballage d'exportation \$ _____		24. If not included in field 17 indicate amount: Si non compris dans le total à la zone 17, préciser: (i) Transportation charges, expenses and insurance to the place of direct shipment to Canada Les frais de transport, dépenses et assurances jusqu'au point d'expédition directe vers le Canada \$ _____ (ii) Amounts for commissions other than buying commissions Les commissions autres que celles versées pour l'achat \$ _____ (iii) Export packing Le coût de l'emballage d'exportation \$ _____	
25. Check (if applicable) Cocher (S'il y a lieu): (i) Royalty payments or subsequent proceeds are paid or payable by the purchaser De redevances ou produits ont été ou seront versés par l'acheteur <input type="checkbox"/> (ii) The purchaser has supplied goods or services for use in the production of these goods L'acheteur a fourni des marchandises ou des services pour la production des marchandises <input type="checkbox"/>			

CONTINUATION SHEET
FEUILLE SUPPLÉMENTAIRE

1. Vendor (Name only)/Vendeur (Nom seulement) KLX Inc.		2. Other References (include Purchaser's Order No.) Autres références (inclure le n° de commande de l'acheteur) PO#: Multiple -- See Item 6		
3. Consignee (Name only)/Destinataire (Nom seulement) DART AEROSPACE LTD				
4. Purchaser if other than Consignee and/or Importer (Name only) Acheteur, s'il diffère du destinataire et (ou) de l'importateur (Nom seulement) DART AEROSPACE LTD				
5. No. of Pkgs Nbre de colis	6. Specification of Commodities (Kind of Packages, Marks and Numbers, General Description and Characteristics, i.e. Grade, Quality) Désignation des articles (Nature des colis, marques et numéros, description générale et caractéristiques, p. ex. classe, qualité)	13. Quantity (State Unit) Quantité (Préciser l'unité)	Selling Price/Prix de vente	
			14. Unit Price Prix unitaire	15. Total
	PO#: 27458 Invoice#: HYFWXZ			
	NAS1149C0332R WASHER, FLAT	2000	0.020 /EA	40.00
	NAS1149D0363J WASHER, FLAT	2000	0.030 /EA	60.00
	NAS1149D0663J WASHER, FLAT	1200	0.050 /EA	60.00
	PO#: 27404 Invoice#: HYFWY0			
	MS20426AD3-8 RIVET, SOLID	600	0.030 /EA	18.00
	MS27039-4-22 SCREW	50	0.600 /EA	30.00
	MS27039-4-21 SCREW	50	0.600 /EA	30.00
1	PO#: 27458 Invoice#: HYFWXZ			
	AN3C3A BOLT	100	0.250 /EA	25.00
	AN4C6A BOLT	300	0.500 /EA	150.00
	AN6-40A BOLT	50	1.970 /EA	98.50
	MS20470AD4-6 RIVET, SOLID	3030	0.010 /EA	30.30
	MS20600AD4W5 RIVET, BLIND	200	0.240 /EA	48.00
	MS20601AD4W3 RIVET, BLIND	500	0.220 /EA	110.00
	MS21042L4 NUT, SELF-LOCKING	1600	0.170 /EA	272.00
	MS21043-6 NUT, SELF-LOCKING	100	1.350 /EA	135.00
	PO#: 27404 Invoice#: HYFWY0			
	NAS6604D16 BOLT	50	0.970 /EA	48.50
	MS21059L3 LOCKNUT, PLATE - TWO	300	0.390 /EA	117.00

U.S. Currency



Certs

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HYFWY0

PAGE 1

SEND TO ACCOUNTING

SOLD TO:
002409

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7



SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS	
27404		02/17/15	FEDX INTL P1 COLL	NET 45		FOB-MIAMI	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
1	600	MS20426AD3-8 Description RIVET, SOLID ECCN :9A991 MFR: AHG ATELIERS HAUTE-GARONN CTRL#: 2014I20175 LOT#: 289909P001F001 LOT QTY: 600 Country of Origin FRANCE	0.030	EA	0	600	18.00
2	50	NAS6604D16 Description BOLT ECCN :9A991 MFR: CALIFORNIA SCREW PRODUCTS CTRL#: 2013B09779 LOT#: 325570 LOT QTY: 50 Country of Origin USA	0.970	EA	0	50	48.50
3	300	MS21059L3 Description LOCKNUT, PLATE - TWO LUG ECCN :9A991 MFR: PAOLO ASTORI CTRL#: 2014E10910 LOT#: 57802 LOT QTY: 300 Country of Origin USA	0.390	EA	0	300	117.00
5	50	MS27039-4-22 Description SCREW ECCN :9A991 MFR: LFC INDUSTRIES CTRL#: 2012H03938 LOT#: 51185	0.600	EA	0	50	30.00
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.							

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.



PACKING SLIP

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
<http://www.KLXAerospace.com/conditions-sale/>



Vice President of Quality



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com

Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001

Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HYFWY0

PAGE 2

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DART AEROSPACE LTD
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HAWKESBURY, ON
CANADA K6A 1K7



SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO. 27404		DATE 02/17/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
7	✓ 50	LOT QTY: 50 Country of Origin USA MS27039-4-21 Description SCREW ECCN : 9A991 MFR: MAC FASTENERS CTRL#: 2013H22238 LOT#: 65220 LOT QTY: 50 Country of Origin USA <i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i>			0.600	EA	0	50	30.00 ✓
SOLIS-02-19									
***CONT									
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1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA		TERMS	SHIPPING TERMS			
27404		02/17/15	FEDX INTL P1 COLL		NET 45	FOB-MIAMI			
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		*** SHIPPED 2 CTNS *** # 1=CTN 22# 0 OZ. 629573690293 # 2=CTN 26# 0 OZ. 629573690308 FREIGHT ACCT# 15179324-0							
INVOICE#.....		HYFWY0							
ORDER#.....		9JBNT8							
CONSOLIDATE#..		1B8L5N							

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CONSOLIDATION

1B8L5N

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1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7



ORDER NO. See Below		DATE 02/17/2015	SHIP VIA FEDX INTL P1 COLL	TERMS NET 45		SHIPPING TERMS FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
1 2 pxu		<u>INVOICE#</u> <u>CUST P/O</u>						
		FED. TAX# 47-163-9172						
		HYFWXZ	27458					
		HYFWY0	27404					
		***CONSOLIDATION SUMMARY PAGE ONLY						
SHIPPED ON 02/17/2015								
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<http://www.KLXaerospace.com/conditions-sale/>



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: 27404

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
7	50	EA	MS27039-4-21		65220	MAC FASTENERS	0RFT4		


Jason Lewis
Senior Director, Global Quality

02/17/15

Inv # 02/17/15

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: OKYE34

PART NUMBER: MS27039-4-21

REV: 3

LOT NUMBER: 65220

MANUFACTURED QUANTITY: 18,000

MILL HEAT NUMBER: 8172011

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 08/20/13


QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 EAST ENTERPRISE
OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER B/E AEROSPACE	PO NUMBER OKYE34	MFG QUANTITY 18,000	DATE 08/20/13
PART NUMBER MS27039-4-21	REV 3	LOT NO 65220	PROCUREMENT SPEC NASM7839

MATERIAL TYPE 8740				MATERIAL SPECIFICATION MIL-S-6049/AMS6322				MILL HEAT NUMBER 8172011			SUPPLIER JOHNSTOWN		
C .42	SI .26	Mn .88	P .007	S .013	Cu .08	Ni .42	Cr .48	Mo .21	V .002	B	Fe	Al .031	Ti
	Co	N .0062	Bi	Pb	Mg	Zn		Nb	Sn 005			Other	

MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
5,580	
5,600	
5,600	
5,600	
5,560	
5,580	
5,600	
5,580	
MIN. REQ.	4,550

DOUBLE SHEAR STRENGTH POUNDS / PSI	
8,260	
8,200	
8,260	
8,240	
8,200	
8,200	
8,220	
8,240	
MIN. REQ.	7,360

HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	8
ACTUAL RESULTS	
30 - 32 HRC	

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3		System <input type="checkbox"/> 21	System <input checked="" type="checkbox"/> 22
		System <input type="checkbox"/> 23	

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input checked="" type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Recess Torque Test	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>
Magnetic Permeability ASTM A342 less than 2.0	<input type="checkbox"/>

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.


Quality Assurance Representative

AS9100C REGISTERED
SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 08/20/13

PO NUMBER: OKYE34

MANUFACTURED QUANTITY: 18,000

PROCESSOR:

BODYCOTE MCLEAN - NADCAP ID 4464

LOT NUMBER: 65220

MATERIAL: TYPE 8740

PART NUMBER: MS27039-4-21

REVISION: 3

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 8

HARDNESS: 30 - 32 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.


QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company - SAI GLOBAL - 0058029



Johnstown Wire Technologies

124 Laurel Ave,
Johnstown, PA 15906

Phone: 814-532-5680
Fax: 814-532-5684

WORK ORDER
675805

TEST REPORT

LOT NUMBER
K-8172011

SALES ORDER / RLS
001586 / 3

SOLD TO

Mac Fasteners, Inc.
C/O TD Logistics Inc.
14505 W 100th Street
Lenexa, KS 66215
USA



CUSTOMER P.O. 50516	CUSTOMER PART 8740-.2465	QUANTITY 24,552 LBS	COILS 14	LADING NO 00117657	SHIPMENT DATE 05/28/2013							
SPECIFICATION MacFast-87246 AMS2301; AMS6322; AMS-S-6049A; MIL-S-6049A 8740 DFARS TS 95000 PSI Max Defense Federal Acquisition Regulation Supplement Silicon Killed Fine Grain Aircraft Quality/Cold Heading Quality Drawn From Annealed Rod Spherodize Annealed In Process Heavy Phos & Light Lube Ctd Size: .2465 +.0005 -.0005												
CERTIFICATION REQUIREMENTS												
Chemical												
C .42	Mn .88	P .007	S .013	Si .26	Al .031	Ni .42	Cr .48	Mo .21	Cu .08	V .002		
Co .000	Ti ???????	N .0062	Sn .005									
Physical												
AMS 2301 0000	J1 58	J10 44	J11 41	J12 39	J2 58	J3 56	J5 55	J4 56	J6 54	J7 52	J8 49	J9 47
MacroClean E-381 111												
Mechanical												
TEST	UNITS	HIGH	LOW	AVERAGE								
Tensile Str	Lbs/SqIn	89000	84000	87000								
RA Per Cent	Percent	74.7	72.5	73.3								
Decarb FFD	Inches	.000	.000	.000								
Surface def. depth	Inches	.002	.000	.001								
Rod / Melt Source												
Rod Source Republic	Melt Source Republic	Country of Origin USA	Nafta Yes									
End of Certification												

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

Daniel J. Malik
Daniel J. Malik, Director of Quality Assurance

53



CERTIFICATE OF TESTS

1801 EAST 28TH ST.
PHOENIX 330-438-8888LOMAZON, OH 44055
FAX: 330-438-8695

REPUBLIC STEEL

2/27/2013
6:32:00 AM
PAGE 1 OF 2PURCHASE ORD: 83626
PART NUMBER: FXT40AA-.375
ORDER NUMBER: 1539859 - 01
HEAT: 8172011PURCHASE ORDER DATE: 12/21/2012
ACCOUNT NUMBER: 5672-1920-01
SCHEDULE: 9690-92
REVISION: 1

----- CHARGE ADDRESS ----- SHIP TO -----

JOHNSTOWN WIRE TECHNOLOGIES
124 LAUREL AVE
JOHNSTOWN, PA 15906JOHNSTOWN WIRE TECHNOLOGIES
EDWARD ZAPOLA
124 LAUREL AVE
TRUCK STPO 9 ROD DOCK
JOHNSTOWN, PA 15904----- MATERIAL DESCRIPTION -----
HOT ROLLED STEEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA
10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS
JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COND B-1 EXC MARK &
UT WAIVED EF-AISI-8740-H FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY
RESTRICTED CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS
SIZE: RDS .3750 DIAM X COIL
RDS 9.5250MM DIAM X COIL----- LADLE CHEMISTRY % -----

C	MN	P	S	SI	CU	NI	CR
0.42	0.88	0.007	0.013	0.26	0.08	0.42	0.48
V	MO	SN	AL	B	CB	N	
0.002	0.21	0.005	0.031	0.0000	0.000	0.0062	

----- CALCULATED TESTS -----
REDUCTION RATIO 1,177.6 TO 1AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM
A29.

----- SEMI - FINISHED RESULTS -----

JOMINY HARDNESS TEST SAE J406/ASTM A255
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
58 58 56 56 55 54 52 49 47 44 41 39 38 37 36 35 33 33 32 31 31 30 30 29MACRO ETCH TEST ASTM E381/MIL STD 430
ETCHANT: HCL TEMPERATURE: 170
AVG S R C
1 1 1MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300
IND AVG IND AVG
FREQ FREQ SEV SEV
PCE 03 0 0 0 0----- FINISHED SIZE RESULTS -----
DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558
ETCHANT = NITAL MAGNIFICATION = 100X

	SPIKE	COMPLETE	TOTAL
	INCHES	INCHES	DEPTH
			INCHES
PCE 2392	0.002	0	0.002

G. KRUTH BY DEBORAH STOKES
DIRECTOR QUALITY ASSURANCE

1807 EAST 28TH ST.
SHOWB: 390-438-5580LORAIN, OH 44053
FAX: 390-438-5695

CERTIFICATE OF TESTS

REPUBLIC STEEL

2/27/2013
6:32:00 AM
PAGE 2 OF 2PURCHASE ORD: 83626
PART NUMBER: FKT40AA-.375
ORDER NUMBER: 1539859 - 01
HEAT: 8172011PURCHASE ORDER DATE: 12/21/2012
ACCOUNT NUMBER: 5672-1920-01
SCHEDULE: 9690-92
REVISION: 1

CAPABLE OF SEAM DEPTH 14 MAX DIAMETER NOT LESS THAN .005 MAX

NOTES

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN

NOTES (CONTINUED)

ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A
MELT METHOD: EF BLOOM RED. RATIO: 1177.6END OF DATA CC END OF DATA
WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA
FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA 1-814-532-5684
FILE 1 COPYG. KRUTH
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES

DE TRAY

Plating Works

Specialized Electro-Plating and Polishing
Nickel
Copper
Decorative Chrome
Satin Chrome
Zinc
Cadmium
Passivate
Bright Dip
Strip Copper
Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

August 15, 2013

Mac Fasteners
1110 East Enterprise Street
Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been cadmium plate per QQ-P-416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 2. Please reference our Invoice#172173 dated 8/15/2013 for:

Lot#- 65220

P.N.- MS27039-4-21

James T. Pierson, Vice-President



DE TRAY PLATING WORKS



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: 27404

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	600	EA	MS20426AD3-8		289909P001P001	AHG ATELIERS HAUTE-G	F0095		


Jason Lewis
Senior Director, Global Quality

02/17/15

Inv # 02/17/15



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: 27404

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
5	50	EA	MS27039-4-22		51185	LPC INDUSTRIES	62384		


Jason Lewis
Senior Director, Global Quality

02/17/15

Inv # 02/17/15

**LFC industries**A Division of RKR Technologies, LTD
manufacturer of precision aerospace fasteners1221 Corporate Dr. W • P. O. Box 5982
Arlington, Texas 76006 (817) 640-1322**SHIPPING
REPORT**

51185

PRODUCTION ORDER # 51185
COUNTRY OF ORIGIN: USAB/E AEROSPACE
HONEYWELL CONSUMABLES SOL.
9835 NW 14TH STREET
MIAMI, FL 33172**COMMENTS**

DFAR 252-225-7009

RETURN OF ANY MERCHANDISE LISTED HEREON WILL NOT
BE ACCEPTED WITHOUT PRIOR AUTHORIZATION**CERTIFICATE OF CONFORMANCE**

THE MATERIALS, PROCESSES AND PARTS FURNISHED WERE PRODUCED IN ACCORDANCE WITH APPLICABLE SPECIFICATION REQUIREMENTS, AND TEST REPORTS INDICATING CONFORMANCE ARE ON FILE SUBJECT TO EXAMINATION. OUR Q.C. INSPECTION SYSTEM CONFORMS TO ISO 9001.

SIGNED

5-2000

PARTIAL

COMPLETE ☒QTY.
SHIPPED:

25000

QTY.
CONTAINERS:

22

LBS. PER "M":

24.7745

GROSS
WEIGHT:

630.21

PCS. USED TO
ESTABLISH WT.

20

TARE
WEIGHT:

23.10

NET
WEIGHT:

607.11

SHIPPING
CLERK:

BW

DATE

7-31-12

CONSIGNEE
SIGNATURE:

DATE

SHIPPING
METHOD

FedEx FRT

PRE-PAID:

COLLECT ☒

ORDER NO.

0EJV36

PART NO.

MS27039-4-22
ITEM# 1

REVISION

3

QTY. DUE

25000

SHIP TOL.

+0-5%

DATE DUE

07-04-2012

EECN: EAR99.SCHEDULE B #7318.1

CUSTOMER PACKING SLIP

LFC INDUSTRIES, DIV. OF RKR TECHNOLOGIES LTD.
1221 CORPORATE DR. W., ARLINGTON, TX 76006
(817) 640-1322 FAX (817) 652-1566

LFC IND. CAGE CODE # 62384, CERTIFICATION - FASTENERS IN THIS LOT WERE
MANUFACTURED, PROCESSED AND INSPECTED IN ONE RUN PER APPLICABLE
DRAWING, PROCUREMENT SPECIFICATION, ISO9001:2008, AND AS9100B.

PART # MS27039-4-22		REVISION 3		LOT # 51185		CUSTOMER B/E AEROSPACE		PO # 0EJV36	
QUANTITY 25000		PROCUREMENT SPECIFICATION NASM7839 REV-1		HEAT TREAT SPECIFICATION AMS-2759/1		DESCRIPTION SCREW, PAN HEAD			
FINISH TYPE TYII CL2		FINISH SPECIFICATION AMS-QQ-P-416C		BAKE N/A		CROSS RECESS			
THREAD SIZE 1/4-28 UNF3A		THREAD SPECIFICATION H28/2		HARDNESS REQUIRED RC 26-32		HARDNESS ACTUAL AVERAGE RC 31			
NDT SAMPLE SIZE 315		NDT SPECIFICATION ASTM E1444/E1444M-11		NDT ACCEPT 315		NDT REJECT 0		LOCKING ELEMENT SPECIFICATION N/A	
MAGNETIC PERMEABILITY SAMPLE SIZE N/A		PERMEABILITY ACCEPT N/A		PERMEABILITY REJECT N/A					
RECESS TORQ SAMPLE SIZE N/A		MINIMUM TORQ REQUIRED N/A		TORQ END LOAD N/A		TORQ ACCEPT N/A		TORQ REJECT N/A	

CHEMICAL COMPOSITION ON CERTIFIED MILL TEST REPORT									
MILL HEAT # 10150310		MATERIAL SPECIFICATION AMS6322N			MATERIAL GRADE 8740			SUPPLIER WIRETECH	
C .38	Mn .85	P .008	S .008	Si .24	Ni .42	Cr .53	Mo .22	Cu .08	V
B 	Ti 	Al 	Co 	Pb 	Fe 	Sn 	Zn 	N 	Mg

TENSILE SAMPLE SIZE			TENSILE STRENGTH REQUIRED			DOUBLE SHEAR SAMPLE SIZE			D. SHEAR STRENGTH REQUIRED		
20			4550#			20			7360#		
T1	6100	T12	6000	T23		S1	8900	S12	8850	S23	
T2	6050	T13	5950	T24		S2	8850	S13	8900	S24	
T3	6000	T14	6050	T25		S3	8950	S14	8850	S25	
T4	5900	T15	6100	T26		S4	9000	S15	8950	S26	
T5	6000	T16	6050	T27		S5	8950	S16	9000	S27	
T6	5950	T17	6000	T28		S6	8850	S17	8950	S28	
T7	6050	T18	5950	T29		S7	8900	S18	9000	S29	
T8	6100	T19	6050	T30		S8	8850	S19	8950	S30	
T9	6050	T20	6100	T31		S9	8950	S20	8850	S31	
T10	6000	T21		T32		S10	9000	S21		S32	
T11	5900	T22				S11	8950	S22			

FATIGUE SAMPLE SIZE N/A		FATIGUE MAX LOAD		FATIGUE MIN LOAD		METALLURGICAL SAMPLE SIZE 20	
F1 CYCLES		F1 LOCATION OF FAILURE				MICRO STRUCTURE ACCEPT	
F2 CYCLES		F2 LOCATION OF FAILURE				MACRO STRUCTURE ACCEPT	
F3 CYCLES		F3 LOCATION OF FAILURE				DECARBURIZATION NONE	
F4 CYCLES		F4 LOCATION OF FAILURE				CARBURIZATION NONE	
F5 CYCLES		F5 LOCATION OF FAILURE				UNTEMPERED MARTENSITE NONE	
F6 CYCLES		F6 LOCATION OF FAILURE				GRAIN FLOW ACCEPT	
F7 CYCLES		F7 LOCATION OF FAILURE				DISCONTINUITIES ACCEPT	
F8 CYCLES		F8 LOCATION OF FAILURE				DEVIATION/WAIVER NOTES N/A	
FATIGUE ACCEPT 0		FATIGUE REJECT 0		CERTIFICATION AMENDMENT NOTES N/A			
DATE 7/31/2012		SIGNATURE TITLE DATA ENTRY SPECIALIST		AUTHORIZED SIGNATURE <i>Eelene Orner</i>		AMENDMENT DATE 	





PAULO
PRODUCTS
COMPANY

HEAT TREATERS
AND FINISHERS
OF METAL

4827 CHELSEA AVENUE
KANSAS CITY, MO 64130
TEL: (816)861-7500
FAX: (816)924-7300

CERTIFIED INSPECTION REPORT

S L F C INDUSTRIES
L 1221 CORPORATE DRIVE WEST
D P O BOX 5982
T ARLINGTON, TX 76006-5982

PAULO #: 1082674-02

DATE: 03/12/2012

DATE REC'D: 02/29/2012

SHIP TO CODE:

PART DESC: CROSS SECTION .2482 X 1.438L

PART NAME: SCREW, PAN HEAD

PART #: MS27039-4-22

QUANTITY: 28000 PCS

MATERIAL: 8740

CUSTOMER PO: 51185

CUSTOMER DRAY:

CUSTOMER JOB:

LOT #:

OTHER #:

Requirements:

Process per SAE spec AMS 2759/1 rev E,

Final core hardness 29-32 HRC

INSPECTION RESULTS:

CORE HARDNESS

Count: 13

Range: 29 -32 HRC

Certified Furnace # 501 Cycle/Load # 6

High heat temp: 1550±25° F Soak time: 60min

Quench: Oil

Temper furnace: 531 Temper temp/time: 1080±15° F / 2hrs

Paulo is responsible for hardness testing only, customer responsible for all other testing. Paulo is not responsible for tensile testing

I CERTIFY THAT APPLICABLE MATERIAL PROCESSES HAVE BEEN PERFORMED IN ACCORDANCE WITH THE SPECIFICATION SHOWN ABOVE.
I HAVE INSPECTED THE WORK AND THE SAMPLING AND RESULTS ARE AS INDICATED.

Approved By

Inspector Signature

CERTIFICATION
REVIEWED
ACCEPT
LFC



WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

LFC Industries
1221 Corporate Drive West
Arlington, TX 76011
USA

WORK ORDER
088593

CERTIFICATION
HEAT NO.
10150310
SALES ORDER / RLS
842876 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CERT# 911.01

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	CARRIERS	LADING NO	SHIPMENT DATE			
14631		14,679 Lbs	11	00094650	01/16/2012			
SPECIFICATION L158740-102475C A-8740, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.247/0.248 Specifications: AMS2301H, AMS6322N, MIL-S-6049A, AMEND.1, AMS-S-6049-A								
CERTIFICATION REQUIREMENTS								
Chemical Properties								
C	Si	Mn	P	S	Cu	Ni	Cr	Mo
.38	.24	.85	.008	.008	.08	.42	.53	.22
Physical Properties								
Grain Size	Jominy 1	Jominy 2	Jominy 3	Inclusions	Macro	Cleanliness	Mill Source	
6 J5=52	J8=45	J10=42	S2-R1-C2	GOOD	F&S=0	Charter		
Country of Origin								
USA - DFAR Compliant								
Mechanical Properties								
TEST	UNITS	CERTIFICATION			Results			
Tensile Strength	KSI	REVIEWED ACCEPT LFC 4			85.6			
Decarb (Total)	In				0.00			
Yield Strength	KSI				72.8			
% Elongation	%				24.5			
% Reduction of Area	%				73.7			
Rockwell Hardness B Scale	HRB (s)				88			

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, Inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

"LATEST REVISIONS OF ASTM"

Material is free of mercury, radium, or alpha contamination.



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road
Saukville, Wisconsin 53080
(262) 268-2400

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

1-800-437-8789
FAX (262) 268-2570

Wiretech Incorporated
6440 East Canning Street
Attn: Andre Stephan
Los Angeles, CA-90040

Cust P.O.	6676-12
Customer Part #	8740C1A090-C-WIRE
Charter Sales Order	70027600
Heat #	10150310
Ship Lot #	4102607
Grade	8740 R SK FG AQ 3/8
Process	DFSAR
Finish Size	0.360

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10150310											
Lab Code: 7388	C	MN	P	S	SI	NI	CR	MO	CU	SN	V
CHEM	.38	.85	.008	.008	.24	.42	.53	.22	.08	.006	.001
%Wt											
	AL	N	B	TI	NB						
	.026	.0060	.0001	.002	.002						
JOMINY(HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM12
	55	55	55	54	52	49	47	45	44	42	39
	JOM14	JOM16	JOM18	JOM20	JOM24	JOM28	JOM32				
	37	35	34	33	31	29	28				

JOMINY SAMPLE TYPE ENGLISH = C
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1
AMS 2301 FREQUENCY AVERAGE = .00 AMS 2301 FREQUENCY INDIVIDUAL = .00
AMS 2301 SEVERITY AVERAGE = .00 AMS 2301 SEVERITY INDIVIDUAL = .00
CHEM. DEVIATION EXT.-GREEN =

REDUCTION RATIO = 274:1

Test Results of Processing Lot# 4099343,4102607					TENSILE LAB = 0358-02 RA LAB = 0358-02
	# of Tests	Min Value	Max Value	Mean Value	
TENSILE	3.0	78.2	96.6	84.7	
REDUCTION OF AREA	3	64	65	64	

NUM DEARB = 5 FREE FERRITE DEARB = .000 FREE FERR & PARTIAL DEARB = .002
CP SPHERO % LAB = 0358-02 NUM SPHERO = 5 SPHERODIZATION = 89.0

Specifications: Manufactured per Charter Steel Quality Manual Rev 9,08-01-09
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = AMS6322N/AMS2301K/COP3010M/BS2S147:1976 CHEM ONLY Revision = Dated =

Additional Comments:

Charter Steel
Saukville, WI, USA



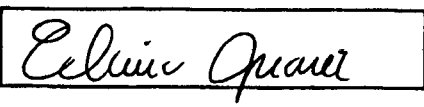
Rem: Load1,Fax0,Mail0

Page 1 of 1

This MTR supersedes all previously
dated MTRs for this order

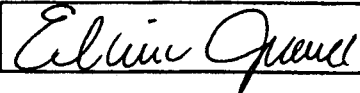
Janice Barnard
Janice Barnard
Manager of Quality Assurance
11/14/2011

PLATING - PASSIVATION CERTIFICATION REPORT

LOT # 51185	CUSTOMER B/E AEROSPACE	MILL HEAT # 10150310
PART # MS27039-4-22	PO # 0EJV36	HARDNESS REQUIRED RC 26-32
QUANTITY 25000	FINISH TYPE TYII CL2	FINISH SPECIFICATION AMS-QQ-P-416C
TIME AND DATE OUT OF PLATE N/A		
TIME AND DATE IN OVEN N/A		
TIME AND DATE OUT OF OVEN N/A		
<p>THE PARTS REFERENCED ABOVE WERE PROCESSED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE STATED FINISH SPECIFICATION. HYDROGEN EMBRITTLEMENT RELIEF, IF REQUIRED WAS PERFORMED AFTER PLATING AT 375 DEGREES (F), FOR A MINIMUM OF TWENTY THREE HOURS UNLESS OTHERWISE SPECIFIED. ACCEPTANCE TESTS RECORDS ARE ON FILE AT LFC INDUSTRIES AND ARE SUBJECT TO EXAMINATION UPON REQUEST.</p>		
CERTIFICATION DATE 7/31/2012		
AUTHORIZED SIGNATURE:		SIGNATURE TITLE DATA ENTRY SPECIALIST

LFC INDUSTRIES DIV. OF RKR TECHNOLOGIES LTD.
1221 CORPORATE DR. W.
ARLINGTON, TX 76006

NDT CERTIFICATION REPORT

CUSTOMER	B/E AEROSPACE
PO #	0EJV36
PART #	MS27039-4-22
QUANTITY	25000
LOT #	51185
MAGNETIC PARTICLE INSPECTED PER:	ASTM E1444/E1444M-11
FLOURESCENT PENETRANT INSPECTED PER:	
NDT SAMPLE SIZE	315
NDT ACCEPT	315
NDT REJECT	0
NDT RESULTS	NO DEFECTS WERE FOUND
ACCEPTANCE CRITERIA PER:	NASM7839 REV-1
NDT PROCESS PERFORMED BY LFC INDUSTRIES	
NDT INSPECTOR KEITH SPARKMAN	INSPECTOR LEVEL II
AUTHORIZED SIGNATURE:	
SIGNATURE TITLE	DATA ENTRY SPECIALIST
CERTIFICATION DATE	7/31/2012

LFC INDUSTRIES
1221 CORPORATE DR. W
ARLINGTON, TX 76006

PHONE # 817-640-1322

FAX # 817-652-1566

NO MERCURY/CLASS 1 OZONE CONTENT CERTIFICATION

CUSTOMER	B/E AEROSPACE
PO #	0EJV36
PART #	MS27039-4-22
LOT #	51185
QUANTITY	25000

PLEASE BE ADVISED, THE ABOVE REFERENCED PARTS HAVE NOT COME INTO CONTACT WITH MERCURY/CLASS 1 OZONE DEPLETING SUBSTANCES DURING THE MANUFACTURING, TESTING, INSPECTION, OR HANDLING PROCESS. THE PRODUCT DOES NOT CONTAIN MERCURY/CLASS 1 OZONE DEPLETING SUBSTANCES TO THE BEST OF THE KNOWLEDGE OF LFC INDUSTRIES.

AUTHORIZED SIGNATURE:

Eddie Quarr

SIGNATURE TITLE

DATA ENTRY SPECIALIST

CERTIFICATION DATE

7/31/2012

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
 www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: 27404

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
3	300	EA	MS21059L3		57802	PAOLO ASTORI	A3856		


 Jason Lewis
 Senior Director, Global Quality

02/17/15

Inv # 02/17/15

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore

28013 Gattico (NO) - ITALY

Tel. (+39) 0322 838847

Fax (+39) 0322 880198

Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 4063****Date 02/05/2014** Pag. 1 / 5**Purchased by:**B/E AEROSPACE INC. CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI - FL
USA**Shipped to:**B/E AEROSPACE INC. CONSUMABLES MANAG
9835 NW 14TH ST.

33172 MIAMI - FL US

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
1	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	2405	N	57802	
2	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
3	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
4	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
5	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
6	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
7	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
8	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
9	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
10	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
11	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
12	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
13	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0, mark: collect; se sopra 150 lbs sped con fedex economy, account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014.
Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoiced value of the parts in subject.

**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 4063****Date 02/05/2014** Pag. 2 / 5**Purchased by:**

B/E AEROSPACE INC. CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI - FL
USA

Shipped to:

B/E AEROSPACE INC. CONSUMABLES MANAG
9835 NW 14TH ST.

33172 MIAMI - FL US

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Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
14	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
15	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	3500	N	57802	
16	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
17	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
18	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
19	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
20	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
21	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
22	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
23	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57802	
24	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	1516	N	57800	
25	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	
26	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0, mark: collect; se sopra 150 lbs sped con fedex economy, account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA Complies with DFARS 252.225-7014.
Agusta-Westland Q500 approval # A/0047

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**PAOLO ASTORI SPA**

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 4063****Date 02/05/2014** Pag 3 / 5**Purchased by:**

B/E AEROSPACE INC.CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI - FL
USA

Shipped to:

B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST.

33172 MIAMI - FL US

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
27	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	2883	N	57800	
28	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	1925	N	57800	
29	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
30	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
31	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
32	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	2530	N	57800	
33	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
34	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
35	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
36	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
37	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
38	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
39	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788. Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014.
Agusta-Westland Q500 approval # A/0047

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**PAOLO ASTORI SPA**

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Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 4063****Date 02/05/2014** Pag. 4 / 5**Purchased by:**

B/E AEROSPACE INC.CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI - FL
USA

Shipped to:

B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST.

33172 MIAMI - FL US

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
40	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
41	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
42	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
43	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
44	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	5310	N	57800	
45	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
46	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
47	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
48	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
49	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
50	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
51	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	
52	MS21059L3/NAS686A3(Rev. REV2)	OFPW35	16/02/2012	6000	N	57800	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART - APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA- Complies with DFARS 252.225-7014.
Agusta-Westland Q500 approval # A/0047

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Tel. (+39) 0322 838847

Fax (+39) 0322 880198

Web: www.paoloastori.com

**CERTIFICATE OF CONFORMANCE****N° 4063****Date** 02/05/2014 **Pag.** 5 / 5**Purchased by:**B/E AEROSPACE INC.CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI - FL
USA**Shipped to:**B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST.

33172 MIAMI - FL US

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Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
53	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	
54	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	
55	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	
56	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	
57	MS21059L3/NAS686A3(Rev. REV2)	0FPW35	16/02/2012	6000	N	57800	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 1 APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto 150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014.

Agusta-Westland Q500 approval # A/0047

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PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111940037
R.E.A. Novara 48560 - Albo Imp-Exp NO 009081

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

Certificate of Test

Manufacturer: Paolo Astori spa, Via Mirabella 9, 28013 Gattico (NO), ITALY

Report number : 71
Date performed: 2014-04-29
Inspector: MATTIAS , VALLETTO

Procurement spec: NASM25027
NUT, SELF-LOCKING, 250F, 450F, AND 800F

Part code: 1OAD25A307N13
Part number: MS21059L3
Product standard: MS21059 NASM21059
NUT, SELF-LOCKING, PLATE, TWO LUG, FLOATING, LOW HEIGHT, ALLOY STEEL, 125KSI, 450F
Revision level: see certificate of conformity

Batch number: 57802
Batch quantity: 284200
Manufacturing date: 2014-04-28

Additional cross-references: NAS1031A3 / NAS1031P3 / NAS686A3

Customer: see certificate of conformity
Purchase order: see certificate of conformity
Quantity delivered: see certificate of conformity

1 Statement of Conformity

This is to certify that parts have been produced, controlled and accepted according to the requirements of the applicable specification called by the purchase order and/or the applicable standard drawing. Material, heat and surface treatments and manufacturing processes are the same as those used for the qualification approval. Samples for tests have been randomly selected from the production batch covered by this document. Country of origin is Italy. This report shall not be reproduced except in full, without the written approval of Paolo Astori spa.

2 Disclaimer

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller's manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoiced value of such goods. Under no circumstances will seller be liable for damages or costs incurred by buyer or subsequent user beyond the invoice value of the parts in subject.

Batch # 57802

Inspector's signature 

1 of 9



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111940037
R.E.A. Novara 48580 - Albo Imp-Exp NO 009061

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

3 Components and raw materials

Component name	Component batch	Material batch	Heath	Material spec
BASKET	57376	-3079	00074185	SAE1042 (MEQU13/01C)
NUT	57801	-3236	000B1736	SAE1042 (MEQU13/01C)

4 Finishing

Component name	Process	Specification
BASKET	CAD PLATING	AMS-QQ-P-416C
BASKET	LUBRICATION	NASM25027
NUT	CAD PLATING	AMS-QQ-P-416C
NUT	LUBRICATION	NASM25027

5 Measures

5.1 SELF LOCKING DEVICE EXAMINATION

Unit of measure: ATTR

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK								

Number of samples tested: 32

5.2 THREAD FIT

Unit of measure: ATTR

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK							

Number of samples tested: 13



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: 27404

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	50	EA	NAS6604D16		325570	CALIFORNIA SCREW PRO 82507			


Jason Lewis
Senior Director, Global Quality

02/17/15

Inv # 02/17/15

CALIFORNIA SCREW PRODUCTS CORP.

14957 GWENCHRIS COURT

PARAMOUNT, CALIF. 90723-3423

CAGE NUMBER : 82507
Airbus UK Approval No. AUK/SA/30144Job Number : 125570
BAB/AG/30235 / MAA**TEST REPORT**

Part Number : NAS6604D16 Rev : 8

Shipped Quantity*: 12500

Customer : B/E AEROSPACE CONSUMABLE MANAGEMENT

Cust. Purchase Order Number : 0JNV07

Mfg Quantity: 25500

Procurement Spec : NAS 4002 REV. 10

Thread Size & Form : 250-28 UNJF-3A

Matl Spec. AMS 6322 REV. N

Surface Finish Spec : AMS-QQ-P-416 REV. C

Thread Spec : AS 8879 REV. D

Item Description: Bolt

Heat Treat Spec : AMS2759/1 REV. E

Sample Size Spec. : NAS 4002 REV. 10

Heat Number: 10179840

Mgntc Permeability : N/A

* Actual piece count is within +/- 2% of the shown lot quantity.

NON-DESTRUCTIVE TESTS / SUBCONTRACTED (SEE CERTIFICATION)

Sample Size : 315 specimens

Inspection Results:

Accept : 315

Reject : 0 specimens

Magnetic Particle : ASTM E1444M-11

Fluorescent Penet. : N/A

METALLURGICAL EXAMINATION RESULTS

Sample Size : 3 specimens

Accept : 3

Reject : 0

Lab Mount No. : 43214

GRAIN SIZE : N/A

HEAD STRUCTURE : Accept

LAPS : Accept

MICRO STRUCTURE : Accept

FILLET COLD WORKED : Accept

DECARB : Accept

SEAMS : Accept

CARBURIZED : Accept

GRAIN FLOW HEAD : Accept

GRAIN FLOW THREAD : Accept

CRACKS : Accept

THREAD RUN OUT : Accept

MECHANICAL TESTS RESULTS

ULTIMATE TENSILE STRENGTH (lbs.) - Loc. of Failure: Threads

Minimum Req.: 6470

Sample Size : 10 specimens

Accept : 10

Reject : 0

Maximum Req.: 0

1. 7351	2. 7340	3. 7315	4. 7710	5. 7508	6. 7339	7. 7441	8. 7422
9. 7513	10. 7289	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

SHEAR (lbs.) S/D: DOUBLE

Sample Size : 10 specimens

Accept : 10

Reject : 0

Minimum Req.: 9300

1. 10289	2. 10085	3. 10056	4. 10034	5. 10237	6. 10298	7. 10485	8. 10306
9. 10317	10. 10275	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

HARDNESS TEST

Sample Size : 6

Hardness Req. RC : 36-40

Hardness Results : 37-39

STRESS RUPTURE TEST

N/A

Load (lbs.)

0

Temperature (F)

0

Periodic test, REF Job No.

Sample Size : 0

Hours

0

FATIGUE TEST

N/A

Cycles

0

Min Req.

0

Sample Size : 0

Low Load (lbs.)

0

High Load (lbs.)

0

TORQUE TEST

N/A

Sample Size : 0

Load (lbs/in)

0

DFAR 252.225.7009
COMPLIANCE

STRESS DURABILITY TEST

N/A

Sample Size : 0

LOAD (lbs.)

0

Hours : 0

STATEMENT OF CONFORMANCE:

This report relates only to items inspected/tested. Deviations from standard test methods, if any, are noted, and results from subcontracted inspection or testing, if any, are identified. All items were manufactured in the USA under a quality management system, which complies with ISO 9001 and with AS 9100. CALIFORNIA SCREW PRODUCTS CORP, hereby states: That the above product is mercury free; that the above listed lot has been produced, sampled, tested, inspected and marked in accordance with all requirements and that the product complies with all specification and contract requirements; that evidence of which is in the files of our company subject to examination. This report shall not be reproduced except in full, unless authorized in writing by CALIFORNIA SCREW PRODUCTS CORPORATION.

**MARIAELENA
TORRES**

B/E Aerospace, Inc. - Consumables Management

Self Release

Signature and Stamp:

Date:

FEB 04 2013

14
CSPFINAL INSPECTOR
(Name, Signature, Stamp and Date)

FEB 04 2013

14
CSP



WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Cal Screw Products
14967 Gwenchris Ct.
Paramount, CA 90723
USA

WORK ORDER
093673

CERTIFICATION

HEAT NO.
10179840
SALES ORDER / RLS
846042 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

J/N 325570

CERT# 911.01

CUSTOMER P.O. 122529	CUSTOMER PART H1260	QUANTITY 2,932 Lbs	CARRIERS 2	LADING NO 00098869	SHIPMENT DATE 08/14/2012			
SPECIFICATION C048740-102510A A-8740, AQ, SKFG, CHQ WIRE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.250/0.252 Specifications: AMS 2301K, AMS6322N, MIL-S-6049A, AMEND 1, AMS-S-6049-A								
CERTIFICATION REQUIREMENTS								
Chemical Properties								
C .40	Si .25	Mn .83	P .009	S .006	Cu .09	Ni .44	Cr .53	Mo .22
Physical Properties								
Grain Size Jominy 1 Jominy 2 Jominy 3 Inclusions Macro Cleanliness Mill Source 6 J5=54 J8=47 J10=44 S2-R1-C2 GOOD F&S=0 Charter								
Country of Origin								
USA - DFAR Compliant								
Mechanical Properties								
TEST	UNITS				Results			
Tensile Strength	KSI				82.2			
Yield Strength	KSI				69.9			
% Elongation	%				25			
% Reduction of Area	%				69.8			
Rockwell Hardness B Scale	HRB (s)				85			

AMIK 8840
JOSE ERVANTES
AUG 14 2012
DFAR 252.225 7009 COMPLIANCE

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Mill Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED
"LATEST REVISIONS OF ASTM"

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

Material is free of mercury, radium, or alpha contamination.



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road
Saukville, Wisconsin 53080
(262) 268-2400
1-800-437-8789
FAX (262) 268-2570

CHARTER STEEL TEST REPORT

Reverse Has Text And Codes

Wiretech Incorporated
6440 East Canning Street
Attn: Andre Stephan
Los Angeles, CA-90040

J/N325570

Cust P.O.	6798-3
Customer Part #	8740C1A080-C
Charter Sales Order	70029477
Heat #	10179840
Ship Lot #	4128935
Grade	8740 R SK FG AQ 21/64
Process	HRSA
Finish Size	21/64

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Lab Code: 7388
CHEM
%Wt

Test Results of Heat Lot# 10179840

C	MN	P	S	SI	NI	CR	MO	CU	SN	V
.40	.83	.009	.006	.25	.44	.53	.22	.08	.008	.001
AL	N	B	TI	NB						
.024	.0050	.0001	.001	.002						

JOMINY(HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM12
	56	56	58	55	54	51	49	47	46	44	41
	JOM14	JOM16	JOM18	JOM20	JOM24	JOM28	JOM32				
	39	37	35	34	32	30	29				

JOMINY SAMPLE TYPE ENGLISH = C
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1
AMS 2301 FREQUENCY AVERAGE = .00 AMS 2301 FREQUENCY INDIVIDUAL = .00
AMS 2301 SEVERITY AVERAGE = .00 AMS 2301 SEVERITY INDIVIDUAL = .00
CHEM. DEVIATION EXT. -GREEN =

Test Results of Rolling Lot# 1061682

REDUCTION RATIO = 358:1

Test Results of Processing Lot# 4128736, 4128935

TENSILE	# of Tests	Min Value	Max Value	Mean Value	TENSILE LAB = 0358-02
REDUCTION OF AREA	2.0	82.6	82.7	82.6	RA LAB = 0358-02
	2	67	69	68	

NUM DECARB = 2 FREE FERRITE DECARB = .000 FREE FERR & PARTIAL DECARB = .003
CP SPHERO % LAB = 0358-02 NUM SPHERO = 2 SPHERODIZATION = 85.0

Specifications:

Manufactured per Charter Steel Quality Manual Rev 9,08-01-09
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = AMS6322N/AMS2301K/COP3010M/BS2S147:1976 CHEM ONLY Revision = Dated =

Additional Comments:

Mail 8840

JANIS BARNARD

AUG 11 2012

DFAR 252.225.7009
COMPLIANCE

Charter Steel
Saukville, WI, USA



Page 1 of 1

This MTR supersedes all previously dated MTRs for this order
Janice Barnard
Manager of Quality Assurance
03/16/2012

Rem: Load1,Fax0,Mail0

J/N 325570

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States meeting DFAR's compliance.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080
0358-02	8171	CSSR/CSSP	Charter Steel Rolling/Processing Division	1658 Cold Springs Road, Saukville, WI 53080
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457
0358-04	125544	CSCM/CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004
.	.	--	Subcontracted test performed by laboratory not in Charter Steel system	

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Specification	CSSM	CSSR/CSSP	CSFP	CSCM/CSCR
Chemistry Analysis	ASTM E415; ASTM E1019	X			X
Macroetch	ASTM E381	X			X
Hardenability (Jominy)	ASTM A255; SAE J408; JIS G0561	X			X
Grain Size	ASTM E112	X	X	X	X
Tensile Test	ASTM E8; ASTM A370		X	X	X
Rockwell Hardness	ASTM E18; ASTM A370	X	X	X	X
Microstructure (spheroidization)	ASTM A892		X	X	
Inclusion Content (Methods A, E)	ASTM E45		X		X
Decarburization	ASTM E1077		X	X	X

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/13.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer, whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report:



RMH 8840
JOSE CERVANTES
AUG 14 2012
DFAR 252.225.1009
COMPLIANCE

Certification

Tri-J Heat Treating

327 E Commercial St,

Pomona CA 91767

Phone: 909-622-9999 Fax: 909-622-1790

Order No.: 31700

Date: 11/07/2012

Entry Date: 11/01/2012

Page: 1

To: CALIFORNIA SCREW PRODUCTS CORP
P.O.Box 228

PARAMOUNT CA 90723

Phone: 562-633-6626

Purchase Order No.: 125282

Job#: 325570

Material: 8740

1

We are pleased to provide you with the following Certification

Quantity	Part Number / Part Name / Part Description	Pounds
26,000	NAS6604D16 REV 8	648

Heat Treat to Specs - AMS 2759 / 1 REV E

Harden to specific hardness

Insp. Type	Scale	Minimum	Maximum	Scale	Minimum	Maximum	Value	
Customer Requirements:				Results:				
Hardness	HRC	36.0	40.0	Hardness	HRC	37.0	38.0	6.0

Process Steps

Step: 1 Process: Heat Treat

Treat at 1575 F, Dew point 50, Oil Quench at 130 F.(1 Hr Min)

Step: 2 Process: Temper

900° F, MIN. 2HRS.

ISO 9001:2008 REGISTERED


Gary Madrigal
QC Manager
Tri-J Heat Treating



FINE QUALITY METAL FINISHING, INC.

1640 DAISY AVE., LONG BEACH, CA 90813 · 562-432-2248 · 562-432-0722 · FAX 562-432-7146
FINEQUALITYMETALFINISHING.COM

SOLD TO	CALIFORNIA SCREW PRODUCTS 14957 GWENCHRIS COURT PARAMOUNT, CA 90723-3423 562-633-6626	SHIP TO	CALIFORNIA SCREW PRODUCTS 14957 GWENCHRIS COURT PARAMOUNT, CA 90723-3423
----------------	----------------------------------------------------------------------------------------------------	----------------	--------------------------------------------------------------------------------

DATE ENTERED 01/21/13		SHIPPING NO. 104695	P.O. NO. 127030	CERT. DATE 01/28/13	INQ FROM
ITEM	QUANTITY ORDERED	DESCRIPTION			QUANTITY SHIPPED
1	25,500	NAS6604D16 Mat: 8740 R/C 36-40 REV.8 JO# 325570 10 PANS / 600 LBS / 25,500 PCS			
ITEM	PROCESS				
	PREBAKE STRESS RELIEVE AT 375 DEGREES F 4 HOURS MIN. CADMIUM PLATE PER SAE/AMS-QQ-P-416 REV. C TYPE II CL 2 POST BAKE FOR 23 HOURS AT 375 F +/- 25deg. F PLATE THICKNESS (X-RAY): <u>.0002K - .0005</u>				

Certifications Fine Quality Metal Finishing Inc., hereby certifies that the above hardware was processed in accordance with and conforms to the applicable specifications.

JOHN ESHANDI
QC INSPECTOR

Sam Ramsey
PARTS RECEIVED IN GOOD ORDER BY

N.D.T. INSPECTOR LEVEL II

1-28-13
DATE RECEIVED



Aerospace Quality System AC7004

PLEASE DATE AND SIGN ABOVE

Claims for shortages, rejections or other discrepancies must be made within five days or responsibility therefore will not be accepted. Our liability for any cause is limited to the cost of direct labor and material of the product directly damaged by our processing or three times our processing charges on such material, whichever is the lesser. Charges for our services are based on this Policy limiting our liability.

CERTIFICATION



HADD-CO INSPECTION LAB

2420 Amsler Street, Torrance, CA 90505

Toll Free: (888) 339-8472 Phone: (310) 325-7620 Fax: (310) 325-9655

www.haddco.com Email: NDT@haddco.com

NO. 16229

Sold To:

CALIFORNIA SCREW PRODUCTS, INC.
14957 GWENCHRIS CT
PARAMOUNT, CA 90723

P.O. Number:

127236

Job/Lot #:

325570

Completion Date:

1/29/13

CERTIFICATION

QUANTITY	PART NUMBER	DESCRIPTION
315	NAS6604D16 REV. 8	MPI PER ASTM-E-1444M-11 NAS 4002-10 MATL: 8740 PLATED 315 PC SAMPLE OF 25500 PC LOT NO REJECTS

This is to certify that 100% of the parts under subject purchase order have been inspected by Magnetic Particle Inspection in accordance with all applicable and/or purchase order requirements.

Inspector:


TOMMIE LLANES LEVEL II



NOTE: Altering of this certification renders it void.



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111940037
R.E.A. Novara 48580 - Albo Imp-Exp NO 009081

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

5.3 BEARING SURFACE SQUARENESS

Unit of measure: mm (inch)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.08 (0.0031)	0.10 (0.0039)	0.06 (0.0024)	0.08 (0.0031)	0.07 (0.0028)	0.07 (0.0028)	0.07 (0.0028)	0.09 (0.0035)	0.08 (0.0031)	0.08 (0.0031)
0.10 (0.0039)	0.09 (0.0035)	0.09 (0.0035)							

Number of samples tested: 13

	Min	Max	Avg
Allowed:	- (-)	0.13 (0.0051)	
Found:	0.06 (0.0024)	0.10 (0.0039)	0.08 (0.0032)

5.4 SURFACE FINISH, PLATING OR SURFACE TREATMENT

Unit of measure: ATTR

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK							

Number of samples tested: 13

5.5 RIVET HOLE LOCATION AND ALIGNEMENT

Unit of measure: mm (inch)

#1	#2	#3	#4	#5
17.47 (0.6878)	17.45 (0.6870)	17.49 (0.6886)	17.48 (0.6882)	17.48 (0.6882)
17.48 (0.6882)	17.47 (0.6878)	17.47 (0.6878)	17.48 (0.6882)	17.49 (0.6886)
17.48 (0.6882)	17.47 (0.6878)	17.46 (0.6874)		

Number of samples tested: 13

	Min	Max	Avg
Allowed:	17.43 (0.6862)	17.53 (0.6902)	
Found:	17.45 (0.6870)	17.49 (0.6886)	17.47 (0.6880)

Batch # 57802

Inspector's signature *Matt... [Signature]*

3 of 9



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 Int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111940037
R.E.A. Novara 48560 - Albo Imp-Exp NO 009061

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

5.6 HEIGHT OF NUT

Unit of measure: mm (*inch*)

#1	#2	#3	#4	#5
5.62 (0.2213)	5.64 (0.2220)	5.63 (0.2217)	5.65 (0.2224)	5.64 (0.2220)
5.62 (0.2213)	5.65 (0.2224)	5.64 (0.2220)	5.64 (0.2220)	5.64 (0.2220)
5.62 (0.2213)	5.62 (0.2213)	5.64 (0.2220)		

Number of samples tested: 13

	Min	Max	Avg
Allowed:	- (-)	6.35 (0.2500)	
Found:	5.62 (0.2213)	5.65 (0.2224)	5.63 (0.2218)

5.7 LOOSE OR HANGING BURRS

Unit of measure: ATTR

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK							

Number of samples tested: 13

5.8 ALL OTHER DIMENSIONAL CHARACTERISTICS NOT COVERED

Unit of measure: ATTR

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK					

Number of samples tested: 5



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111940037
R.E.A. Novara 48560 - Albo Imp-Exp NO 009081

5.9 AXIAL TENSILE STRENGTH

Unit of measure: N (lb)

#1	#2	#3	#4	#5
11900.00 (2675.2264)	11550.00 (2596.5433)	11600.00 (2607.7837)	11750.00 (2641.5051)	11650.00 (2619.0242)
11850.00 (2663.9860)	11900.00 (2675.2264)	11550.00 (2596.5433)	11800.00 (2652.7455)	11750.00 (2641.5051)
11600.00 (2607.7837)	11850.00 (2663.9860)	11900.00 (2675.2264)	11550.00 (2596.5433)	11750.00 (2641.5051)
11700.00 (2630.2646)	11600.00 (2607.7837)	11650.00 (2619.0242)	11550.00 (2596.5433)	11900.00 (2675.2264)
11850.00 (2663.9860)	11750.00 (2641.5051)	11700.00 (2630.2646)	11650.00 (2619.0242)	11800.00 (2652.7455)
11850.00 (2663.9860)	11900.00 (2675.2264)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	10946.00 (2460.7587)	- (-)	
Found:	11550.00 (2596.5433)	11900.00 (2675.2264)	11735.19 (2638.1746)

5.10 MAX LOCKING TORQUE 1st CYCLE

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.96 (8.4967)	0.98 (8.6737)	1.00 (8.8507)	0.98 (8.6737)	0.94 (8.3197)	0.98 (8.6737)	0.96 (8.4967)	1.04 (9.2048)	1.06 (9.3818)	0.92 (8.1427)
0.98 (8.6737)	0.94 (8.3197)	0.98 (8.6737)	0.94 (8.3197)	0.96 (8.4967)	1.04 (9.2048)	0.96 (8.4967)	0.94 (8.3197)	0.96 (8.4967)	1.06 (9.3818)
0.98 (8.6737)	1.02 (9.0278)	0.94 (8.3197)	0.92 (8.1427)	0.96 (8.4967)	0.98 (8.6737)	0.90 (7.9657)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	- (-)	2.03 (17.9670)	
Found:	0.90 (7.9657)	1.06 (9.3818)	0.97 (8.6147)

Batch # 57802

Inspector's signature *Matteo Tassi*

5 of 9



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
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COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111840037
R.E.A. Novara 48560 - Albo Imp-Exp NO 009061

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

5.11 MAX LOCKING TORQUE 7th CYCLE

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.68 (6.0185)	0.70 (6.1955)	0.72 (6.3725)	0.70 (6.1955)	0.66 (5.8415)	0.70 (6.1955)	0.68 (6.0185)	0.76 (6.7266)	0.78 (6.9036)	0.64 (5.6645)
0.70 (6.1955)	0.66 (5.8415)	0.70 (6.1955)	0.66 (5.8415)	0.68 (6.0185)	0.76 (6.7266)	0.68 (6.0185)	0.66 (5.8415)	0.68 (6.0185)	0.78 (6.9036)
0.70 (6.1955)	0.74 (6.5496)	0.66 (5.8415)	0.64 (5.6645)	0.68 (6.0185)	0.70 (6.1955)	0.62 (5.4875)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	-	2.03 (17.9670)	
Found:	0.62 (5.4875)	0.78 (6.9036)	0.69 (6.1365)

5.12 MAX LOCKING TORQUE 15th CYCLE

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.40 (3.5403)	0.42 (3.7173)	0.44 (3.8943)	0.42 (3.7173)	0.38 (3.3633)	0.42 (3.7173)	0.40 (3.5403)	0.48 (4.2484)	0.50 (4.4254)	0.36 (3.1863)
0.42 (3.7173)	0.38 (3.3633)	0.42 (3.7173)	0.38 (3.3633)	0.40 (3.5403)	0.48 (4.2484)	0.40 (3.5403)	0.38 (3.3633)	0.40 (3.5403)	0.50 (4.4254)
0.42 (3.7173)	0.46 (4.0713)	0.38 (3.3633)	0.36 (3.1863)	0.40 (3.5403)	0.42 (3.7173)	0.34 (3.0093)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	-	2.03 (17.9670)	
Found:	0.34 (3.0093)	0.50 (4.4254)	0.41 (3.6583)



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R.E.A. Novara 48560 - Albo Imp-Exp NO 009081

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

5.13 MIN.BREAKAWAY TORQUE 1st CYCLE

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.90 (7.9657)	0.92 (8.1427)	0.94 (8.3197)	0.92 (8.1427)	0.88 (7.7887)	0.92 (8.1427)	0.90 (7.9657)	0.98 (8.6737)	1.00 (8.8507)	0.86 (7.6116)
0.92 (8.1427)	0.88 (7.7887)	0.92 (8.1427)	0.88 (7.7887)	0.90 (7.9657)	0.98 (8.6737)	0.90 (7.9657)	0.88 (7.7887)	0.90 (7.9657)	1.00 (8.8507)
0.92 (8.1427)	0.96 (8.4967)	0.88 (7.7887)	0.86 (7.6116)	0.90 (7.9657)	0.92 (8.1427)	0.84 (7.4346)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.84 (7.4346)	1.00 (8.8507)	0.91 (8.0837)

5.14 MIN.BREAKAWAY TORQUE 7th CYCLE

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.70 (6.1955)	0.72 (6.3725)	0.74 (6.5496)	0.72 (6.3725)	0.68 (6.0185)	0.72 (6.3725)	0.70 (6.1955)	0.78 (6.9036)	0.80 (7.0806)	0.66 (5.8415)
0.72 (6.3725)	0.68 (6.0185)	0.72 (6.3725)	0.68 (6.0185)	0.70 (6.1955)	0.78 (6.9036)	0.70 (6.1955)	0.68 (6.0185)	0.70 (6.1955)	0.80 (7.0806)
0.72 (6.3725)	0.76 (6.7266)	0.68 (6.0185)	0.66 (5.8415)	0.70 (6.1955)	0.72 (6.3725)	0.64 (5.6645)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.64 (5.6645)	0.80 (7.0806)	0.71 (6.3135)

Batch # 57802

Inspector's signature

Walter Tassi

7 of 9



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
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Capitale Sociale € 120.000,00 Int. vers.
Cod. Fisc., Part. I.V.A. e R.I. Novara 00111940037
R.E.A. Novara 46580 - Albo Imp-Exp NO 009061

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
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www.paoloastori.com

5.15 MIN.BREAKAWAY TORQUE 15th CYCLE

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
0.54 (4.7794)	0.56 (4.9564)	0.58 (5.1334)	0.56 (4.9564)	0.52 (4.6024)	0.56 (4.9564)	0.54 (4.7794)	0.62 (5.4875)	0.64 (5.6645)	0.50 (4.4254)
0.56 (4.9564)	0.52 (4.6024)	0.56 (4.9564)	0.52 (4.6024)	0.54 (4.7794)	0.62 (5.4875)	0.54 (4.7794)	0.52 (4.6024)	0.54 (4.7794)	0.64 (5.6645)
0.56 (4.9564)	0.60 (5.3104)	0.52 (4.6024)	0.50 (4.4254)	0.54 (4.7794)	0.56 (4.9564)	0.48 (4.2484)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.48 (4.2484)	0.64 (5.6645)	0.55 (4.8974)

5.16 TORQUE-OUT

Unit of measure: Nm (lb-in)

#1	#2	#3	#4	#5
8.00 (70.8060)	7.00 (61.9552)	7.00 (61.9552)	7.60 (67.2657)	7.00 (61.9552)
7.00 (61.9552)	8.00 (70.8060)	7.80 (69.0358)	7.60 (67.2657)	7.40 (65.4955)
7.20 (63.7254)	7.60 (67.2657)	7.40 (65.4955)	7.00 (61.9552)	7.20 (63.7254)
8.00 (70.8060)	8.00 (70.8060)	7.80 (69.0358)	7.20 (63.7254)	7.00 (61.9552)
7.40 (65.4955)	7.60 (67.2657)	8.00 (70.8060)	7.60 (67.2657)	7.20 (63.7254)
8.00 (70.8060)	8.00 (70.8060)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	6.78 (60.0081)	- (-)	
Found:	7.00 (61.9552)	8.00 (70.8060)	7.50 (66.4134)



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R.E.A. Novara 48560 - Albo Imp-Exp NO 009061

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www.paoloastori.com

5.17 PUSH-OUT

Unit of measure: N (lb)

#1	#2	#3	#4	#5
588.00 (132.1877)	490.00 (110.1564)	510.00 (114.6526)	520.00 (116.9007)	529.00 (118.9239)
588.00 (132.1877)	568.00 (127.6915)	578.00 (129.9396)	470.00 (105.6602)	480.00 (107.9083)
520.00 (116.9007)	549.00 (123.4201)	588.00 (132.1877)	578.00 (129.9396)	540.00 (121.3968)
549.00 (123.4201)	569.00 (127.9163)	588.00 (132.1877)	578.00 (129.9396)	461.00 (103.6369)
500.00 (112.4045)	559.00 (125.6682)	569.00 (127.9163)	540.00 (121.3968)	588.00 (132.1877)
579.00 (130.1644)	588.00 (132.1877)			

Number of samples tested: 27

	Min	Max	Avg
Allowed:	445.00 (100.0400)	- (-)	
Found:	461.00 (103.6369)	588.00 (132.1877)	546.81 (122.9289)

5.18 DISCONTINUITIES

Unit of measure: ATTR

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
OK	OK								

Number of samples tested: 32

5.19 23-HOURS STRESS EMBRITTMENT

Unit of measure: ATTR

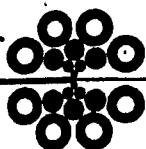
#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Number of samples tested: 10

Batch # 57802

Inspector's signature *Walter Stauder*

9 of 9



GIUSEPPE & FLLI BONAITI S.p.A.
NASTRO E FILO DI ACCIAIO

Sede legale e amministrativa:
Piazza Verdi, 3/A
23801 CALOLZIOCORTE (LC)
tel. 0341 633080 fax 0341 633081
Internet: www.bonaitigiuseppe.it
e-mail: info@bonaitigiuseppe.it

CERTIFICATO DI CONTROLLO

(Tipo 3.1 secondo norma EN 10204:2004)

Nr del
5744 29/05/13

Spett.
PAOLO ASTORI SPA
VIA MIRABELLA 9
28013 MAGGIATE SUPERIORE NO

Vs.Ord. 22364 del 19/01/13
Ns.Com. 33/000213-01 del 28/01/13
DDT N. 2537 del 29.5.13

PRODOTTO Cod.

NASTRO C45E SAE1042 MM.35,0X0,60

PAOLO ASTORI SPA

- 3079

RAW MATERIAL LOT

RISULTATI PROVE

FOGLIO DI LAVORAZIONE PDL LA 2013 001795
Prova N. 001
RESISTENZA A TRAZIONE N/MM2 510
ALLUNGAMENTO % A80MM. 27,83
CARICO UNIT.SCOST.PROP. RP0.2 360,00
PIEGAMENTO TRASVERSALE 180° NO ROTTURA

Documento N. 1174 del 27/05/13

Certifichiamo che il prodotto è conforme alle richieste della conferma d'ordine.

LABORATORIO PROVE

U. Dhar

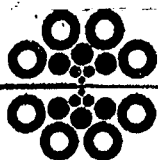
ANALISI COLATA

(Verifica effettuata dal fornitore materia prima)

Colata 00074185		L. 41045 / 001 . E								
C	Mn	Si	P	S	Al	Cr	Cu	Ni	Mo	V
0,460	0,680	0,230	0,010	0,003	0,020	0,260	0,020	0,040	0,003	0,001

ALCOM 003 REV.2

Cap. Soc. € 1.200.000,00 i.v.
Cod. Fiscale, Reg. Imprese e Part. I.V.A. 00217830169
C.C.I.A.A. LC 40689 - Mecc. LC 000953
Stabilimenti di produzione: Calolziocorte (LC) - Palazzago (BG)



GIUSEPPE & ELLI BONAITI S.p.A.

NASTRO E FILO DI ACCIAIO

Sede legale e amministrativa:
Piazza Verdi, 3/A
23801 CALOLZIOCORTE (LC)
tel. 0341 633080 fax 0341 633081
Internet: www.bonaitigiuseppe.it
e-mail: info@bonaitigiuseppe.it

CERTIFICATO DI CONTROLLO

(Tipo 3.1 secondo norma EN 10204:2004)

Nr del
11053 25/10/13

Spett.

PAOLO ASTORI SPA
VIA MIRABELLA 9
28013 MAGGIATE SUPERIORE NO

Vs.Ord. 24448 del 23/07/13

Ns.Con. 33/001810-02 del 23/07/13

DDT N. 4917 del 22.10.13

PAOLO ASTORI SPA

-3236

RAW MATERIAL LOT

PRODOTTO

Cod.

NASTRO C45E SAE1042 MM.62,0X0,85

RISULTATI PROVE

FOGLIO DI LAVORAZIONE

FDL LA 2013 004329

Documento N. 13688 del 22/10/13

Prova

RESISTENZA A TRAZIONE N/MM2 486

ALLUNGAMENTO % A80MM. 26,40

CARICO UNIT.SCOST.PROP. RP0.2 340,00

PIEGAMENTO TRASVERSALE 180° NO ROTTURA

Prova

RESISTENZA A TRAZIONE N/MM2 510

ALLUNGAMENTO % A80MM. 26,89

CARICO UNIT.SCOST.PROP. RP0.2 358,00

PIEGAMENTO TRASVERSALE 180° NO ROTTURA

Certifichiamo che il prodotto è conforme alle richieste della conferma d'ordine.

LABORATORIO PROVE

A. Putzu

ANALISI COLATA

(Verifica effettuata dal fornitore materia prima)

Colata 000B1736

L. 41185 / 002 . E

C	Mn	Si	P	S	Al	Cr	Cu	Ni	Mo	V
0,485	0,674	0,194	0,010	0,003	0,029	0,284	0,028	0,043	0,003	0,003

MLCON.008 REV.2

Test report 2.2 DIN EN 10204 (A2)		No. (A03) Page 1/1 Date 23.02.2013	
No. (A07) 33/90/000116	10.01.2013	No. (A07) Customer Guiseppe & Frat. Bonaiti SpA	23081 CALOLZIOCORTE (LC) ITALIEN
Purchaser (A06) Guiseppe & Frat. Bonaiti SpA 23081 CALOLZIOCORTE (LC) ITALIEN		Customer (A06) Guiseppe & Frat. Bonaiti SpA 23081 CALOLZIOCORTE (LC) ITALIEN	
Product (B01) Hot rolled wide strip		Work order No. (A05) 0001172537	Inspection (A05) WS
Steel grade and terms of delivery C45S (B02-B03) DIN EN 10132 - T.4 04/2003 CHN1/2451 R.2 03.05.11 DIN EN 10051:2011-02 3			


Material data (B01-B06)					
Item	Quantity (B06)	Product No. (B07)	Heat No. (B07)	Cond. of delivery (B04)	Thickness x Width (B08-B11)
03	1	201955	00074185	U	3,00 x 1300
03	1	201956		U	
03	1	201957		U	
Σ	3	Weight (B12)	56.090 kg	U: as rolled	

Ladle analysis (C70-C89)										
Heat No. (B07)	C %	Si %	Mn %	P %	S %	Al %	Cu %	Cr %	Ni %	Mo %
	0,50 - 0,74	0,10 - 0,40	0,00 - 0,30	≤ 0,035	≤ 0,030				0,10 - 0,25	
00074185	0,460	0,230	0,680	0,010	0,003	0,020	0,020	0,260	0,040	0,003
Heat No. (B07)	V %									
00074185	0,001									
Steel making: Basic oxygen process (C70)										

Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.

3.1.2013

We hereby certify that the delivered material complies with the terms of the order.
(Z01)

 Trademark
(A04)

Salzgitter Flachstahl GmbH
Eisenstrasse 93
D-38226 Salzgitter
(A01)

Inspection Representative
(Z02)

Kratz

This certificate was prepared by a suitable data processing system and is valid without signature according to EN 10 204, section 8.

Test report 2.2 DIN EN 10204 (A02)		No. (A03) Page Date	1/1 21.05.2013
No. (A07) Purchaser (A08)	33/90/000163 Guiseppo & Frat. Bonaiti SpA 23081 CALOLZIOCORTE (LC) ITALIEN	02.03.2013 Customer (A06)	Guiseppo & Frat. Bonaiti SpA 23081 CALOLZIOCORTE (LC) ITALIEN
Product (B01)	Hot rolled wide strip		Works order No. (A05) Inspection (A05)
Steel grade and terms of delivery (B02-B03)	C45S DIN EN 10132 - T.4 04/2003 CHN1/2451 R.2 03.05.11 DIN EN 10051:2011-02 3		WS

Material data (B01-B09)						
Item (B06)	Quantity (B06)	Product No. (B07)	Heat No. (B07)	Cond. of delivery (B04)	Thickness x Width (B09-B11)	mm x mm
	2		000B1736	U U U	2,00 x 1300	
Σ	2	Weight (B12)	48.700	kg	U: as rolled	

Ladle analysis (C70-C99)										
Heat No. (B07)	C %	Si %	Mn %	P %	S %	Al %	Cu %	Cr %	Ni %	Mo %
	0,63 - 0,74	0,15 - 0,40	0,58 - 0,90	≤ 0,035	≤ 0,035				0,10 - 0,75	
000B1736	0,485	0,194	0,674	0,010	0,003	0,029	0,028	0,284	0,043	0,003
Heat No. (B07)	V %									
	0,003									
Steel making: Basic oxygen process (C70)										

Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.

We hereby certify that the delivered material complies with the terms of the order.
(Z01)



Trademark
(A04)

Salzgitter Flachstahl GmbH
Eisenhüttenstr. 93
D-38229 Salzgitter
(A01)

Inspection Representative
(Z02)

Kratz

This certificate was prepared by a suitable data processing system and is valid without signature according to EN 10 204, section 5.